

18. Discuss three major categories of electronic warfare.
19. Compare and contrast artificial intelligence and human intelligence.
20. Explore the rules of punctuation marks with examples.

APRIL/MAY 2024

**FPE20C/CPE20C-PROFESSIONAL  
ENGLISH FOR PHYSICAL SCIENCES**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Fill in the blanks choosing the correct forms of the verbs given within brackets.  
We put a slice of lemon into a cup of strong tea and the tea \_\_\_\_\_ (become) pale. We strike a match and a stick of wood \_\_\_\_\_ (burst) into flame and \_\_\_\_\_ (turn) into charcoal. These \_\_\_\_\_ (be) all chemical reactions.
2. Match the following:

(a) Terrestrial	—	(i) Freedom
(b) Liberated	—	(ii) Death
(c) Combustion	—	(iii) Land
(d) Asphyxiation	—	(iv) Heat
3. Why do we consider Gauss the “Prince of Mathematicians”?
4. Name a few fitness trackers that you are familiar with.





5. Write the synonyms for the following words: Optimal, Intrigue, Array, and Decipher.
6. What are the basic skills in ICT?
7. List a few insects that live in water.
8. What is buoyancy?
9. How is AI used in playing online music?
10. Write a note on Python.

PART B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) List a few chemical compounds that you use everyday.

Or

- (b) What motivated the professor to visit the nearby village?

12. (a) Explain the functions of fitness trackers.

Or

- (b) How did Lavoisier devise a better form of gun powder?

13. (a) Enumerate digital competences for academic and professional life.

Or

- (b) Trace the importance of digital literacy.

14. (a) Distinguish between a QR code and a barcode.

Or

- (b) Explore the pros and cons of ultra violet ink.

15. (a) Elaborate on the similarities that exist between Python and the English language.

Or

- (b) Prepare a format for writing the minutes of a meeting.

PART C — (3 × 10 = 30 marks).

Answer any THREE questions.

16. Define the following terms: Clocking, Light year, Modem, Gravitational field, Tele conference.
17. Write an essay on the applications of AI in the fields of health, education, agriculture, and banking sectors.